

**Abstract**

The invention concerns a power production unit (10) onboard a motor vehicle, comprising a fuel cell (12) including at least one orifice for evacuating off-gases (28) consisting in particular of air and water vapour, and which are discharged into a discharge pipe (30, 36) wherein is provided a condenser (28) which liquefies the water vapour, and wherein a compressor (32) is interposed upstream of the condenser (38), liquid water being diverted from the discharge pipe (36) to a liquid water circuit (62). The invention is characterized in that the compressor (32) compresses the off-gases so that the dew point of the water vapour is higher than the temperature of the condenser (38).